May “3T” Update

5/20/2014

BAYCNDPIP01A

Hyperion/Forefront

PVC Adapter Kit (Condensate)

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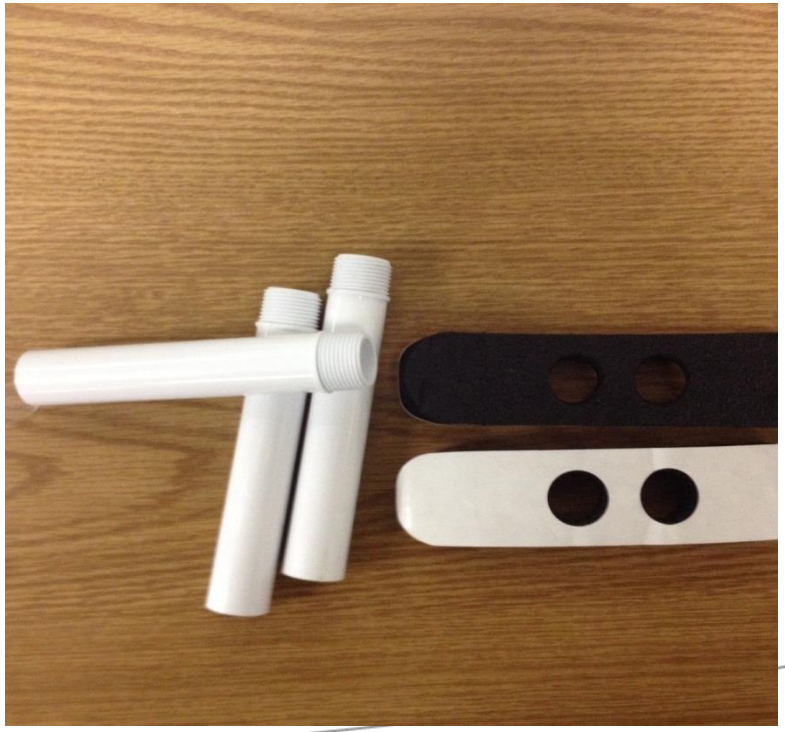
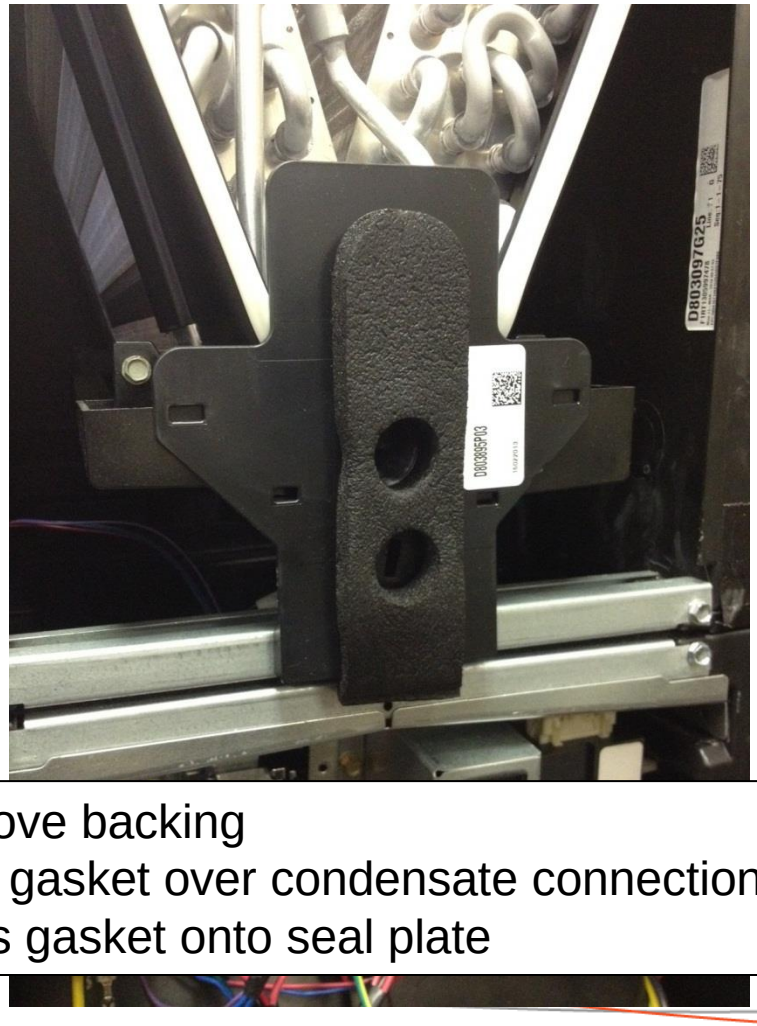
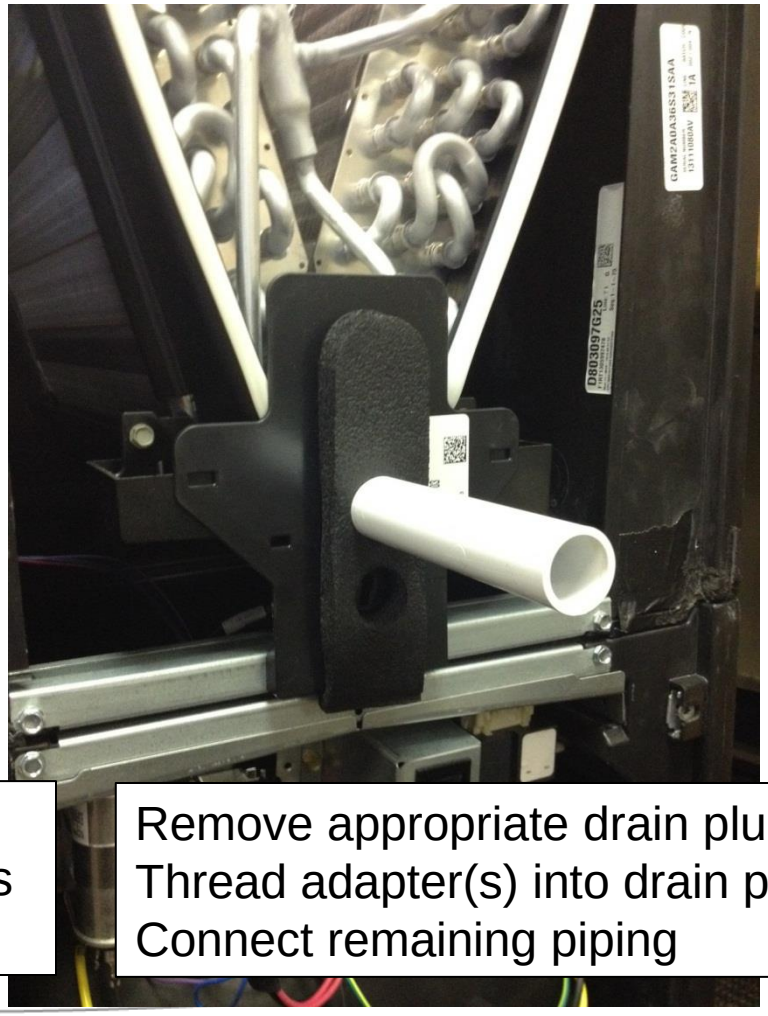
BAYCNDPIP01A

- New PVC condensate adapter kit for Hyperion/Forefront
  - Available Now
- Allows for easy panel removal and installation
  - No shoulder on adapters
  - Easy access through door panels
- Used on Hyperion/Forefront Models
  - Upflow
  - Downflow (gasket not applied)
  - Horizontal left or right
- Kit Contents
  - 10 pcs adapters
  - 20 pcs gasket w/adhesive backing



Upflow Connections





Remove backing
Align gasket over condensate connections
Press gasket onto seal plate

Remove appropriate drain plug(s)
Thread adapter(s) into drain pan
Connect remaining piping

Final assembly complete

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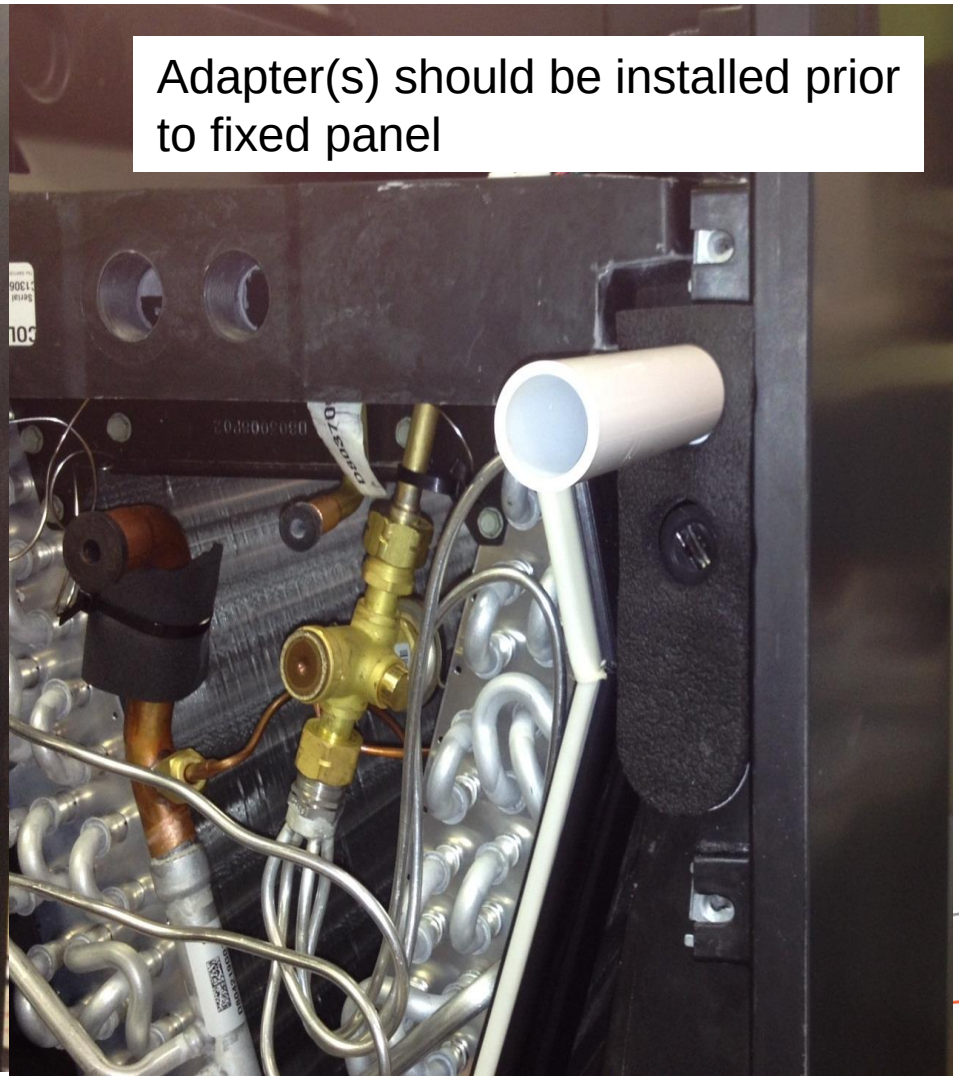
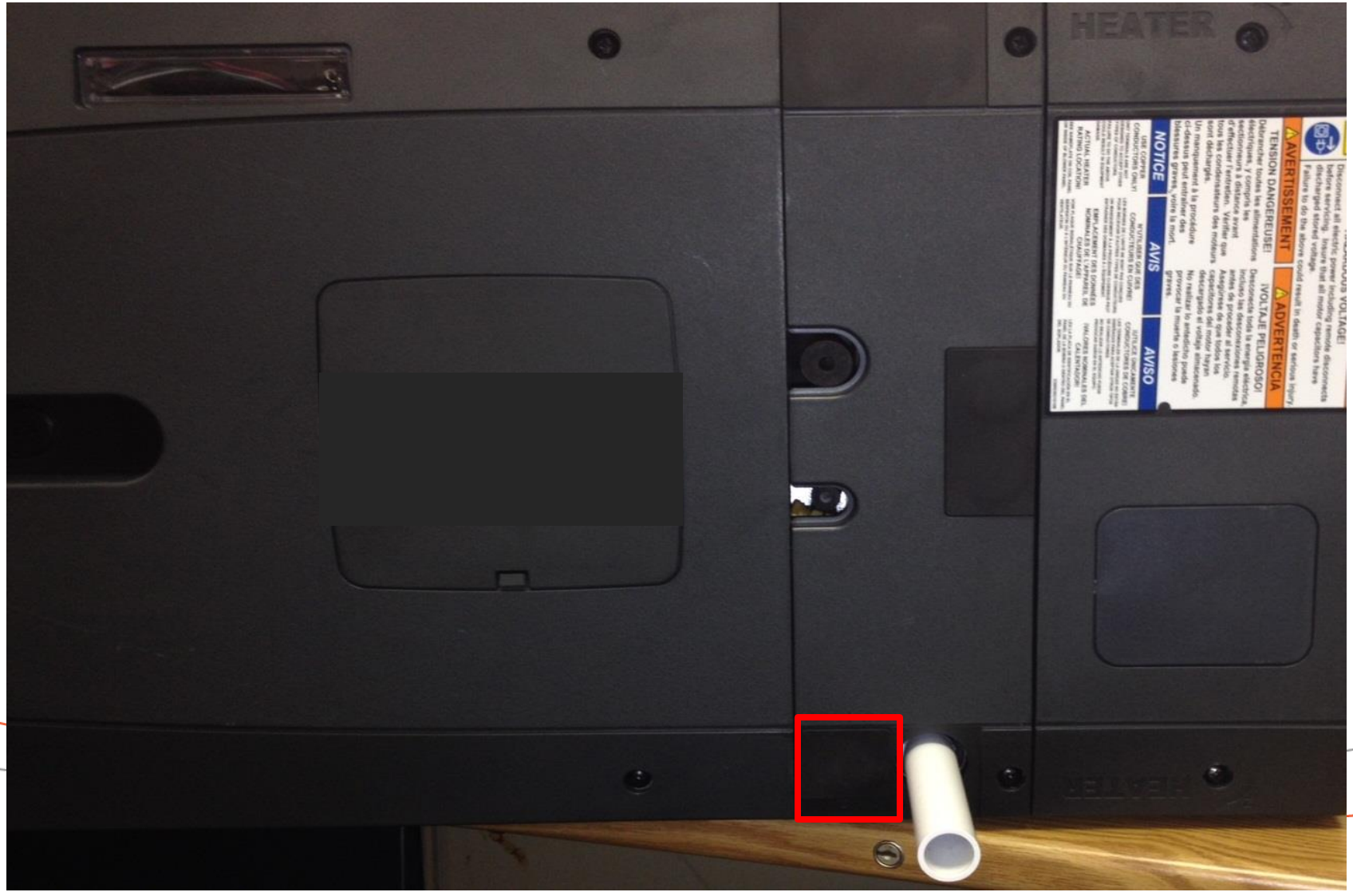
HEATING & AIR CONDITIONING

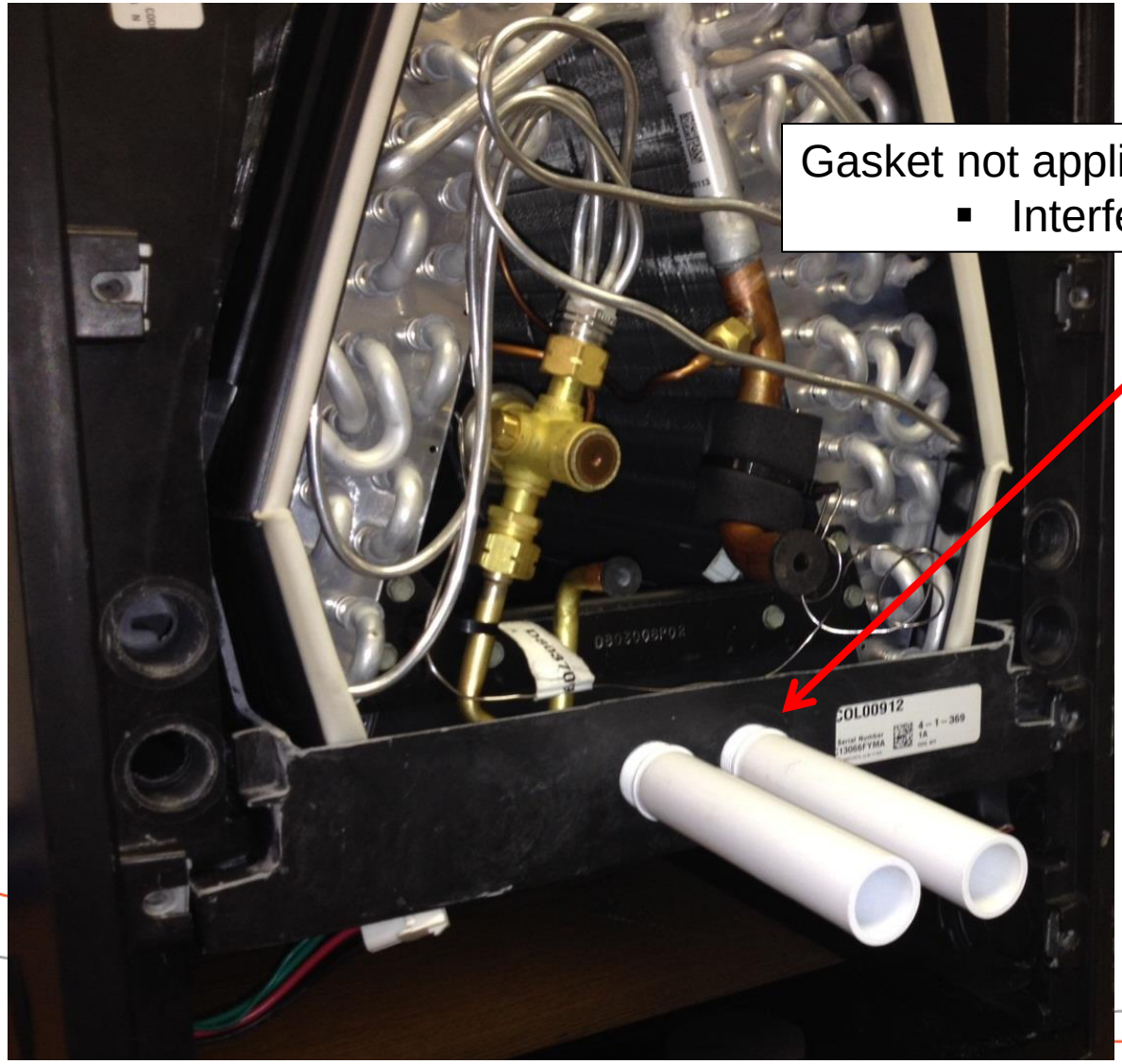
Horizontal Connections



Horizontal Connections



Downflow Connections



Gasket not applied in downflow configurations

- Interference with fixed panel

Downflow Connections

Seal around condensate connections to prevent air leakage

Hyperion/Forefront Update

Product Changes

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TAM4 Product Changes

TAM4	
New Model	**Previous Model**
TAM4A0A18S11S**D**A	TAM4A0A18S11S**C**A
TAM4A0A24S21S**D**A	TAM4A0A24S21S**C**A
TAM4A0A30S21S**D**A	TAM4A0A30S21S**C**A
TAM4A0A36S31S**D**A	TAM4A0A36S31S**C**A
TAM4A0B42S31S**D**A	TAM4A0B42S31S**C**A
TAM4A0C48S41S**D**A	TAM4A0C48S41S**C**A
TAM4A0C60D51S**D**A	TAM4A0C60S51S**C**A

TAM4

- **Steel Doors**
- **Moved LV entry to blower compartment**
- **Removed HV conduit holes, added dimple in cabinet**
- **Removed line choke (TAM4-60)**

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GAM5B Product Changes

GAM5B	
New Model	**Previous Model**
GAM5B0A18S11S**E**A	GAM5B0A18S11S**D**A
GAM5B0A24S21S**E**A	GAM5B0A24S21S**D**A
GAM5B0A30S21S**E**A	GAM5B0A30S21S**D**A
GAM5B0A36S31S**E**A	GAM5B0A36S31S**D**A
GAM5B0B42S31S**E**A	GAM5B0B42S31S**D**A
GAM5B0C48S41S**E**A	GAM5B0C48S41S**D**A
GAM5B0C60D51S**E**A	GAM5B0C60S51S**D**A

GAM5B

- **Steel Doors**
- **Moved LV entry to blower compartment**
- **Removed HV conduit holes, added dimple in cabinet**
- **HIF fan relay (CNT06951)**
- **Removed line choke**

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TAM7 Product Changes

TAM7	
New Model	**Previous Model**
TAM7A0A24H21S**D**A	TAM7A0A24H21S**C**A
TAM7A0B30H21S**D**A	TAM7A0B30H21S**C**A
TAM7A0C36H31S**D**A	TAM7A0C36H31S**C**A
TAM7A0C42H31S**D**A	TAM7A0C42H31S**C**A
TAM7A0C48H41S**D**A	TAM7A0C48H31S**C**A
TAM7B0C60H51S**C**A	TAM7B0C60S51S**B**B

TAM7

- **Steel Doors**
- **Removed HV conduit holes, added dimple in cabinet**
- **Removed line choke**
- **75 VA to 50 VA transformer**
  - **(TRR02266)**

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TAM8C Product Changes

TAM8	
New Model	**Previous Model**
TAM8C0A24V21C**B**A	TAM8C0A24V21C**A**A
TAM8C0B30V21C**B**A	TAM8C0B30V21C**A**A
TAM8C0C36V31C**B**A	TAM8C0C36V31C**A**A
TAM8C0C42V31C**B**A	TAM8C0C42V31C**A**A
TAM8C0C48V41C**B**A	TAM8C0C48V41C**A**A
TAM8C0C60V51C**B**A	TAM8C0C60V51C**A**A

TAM8C

- **Steel Doors**
- **Removed HV conduit holes, added dimple in cabinet**
- **Removed line choke**
- **75 VA to 50 VA transformer**
  - **(TRR02266)**

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TAMG Product Changes

TAMG	
New Model	**Previous Model**
TAMGA0A24H21S**C**A	TAMGA0A24H21S**B**A
TAMGA0C36H31S**C**A	TAMGA0C36H31S**B**A
TAMGA0C48H41S**C**A	TAMGA0C48H41S**B**A
TAMGA0C60H51S**C**A	TAMGA0C60H51S**B**A

TAMG

- **Steel Doors**
- **Removed HV conduit holes, added dimple in cabinet**
- **Removed line choke**
- **75 VA to 50 VA transformer**
  - **(TRR02266)**

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Steel Door Enhancements

- Improved door seals
- Removed door hinges (blower/coil panel)
- Maintaining same industry-leading appearance
- Improved air leakage rates (1%)

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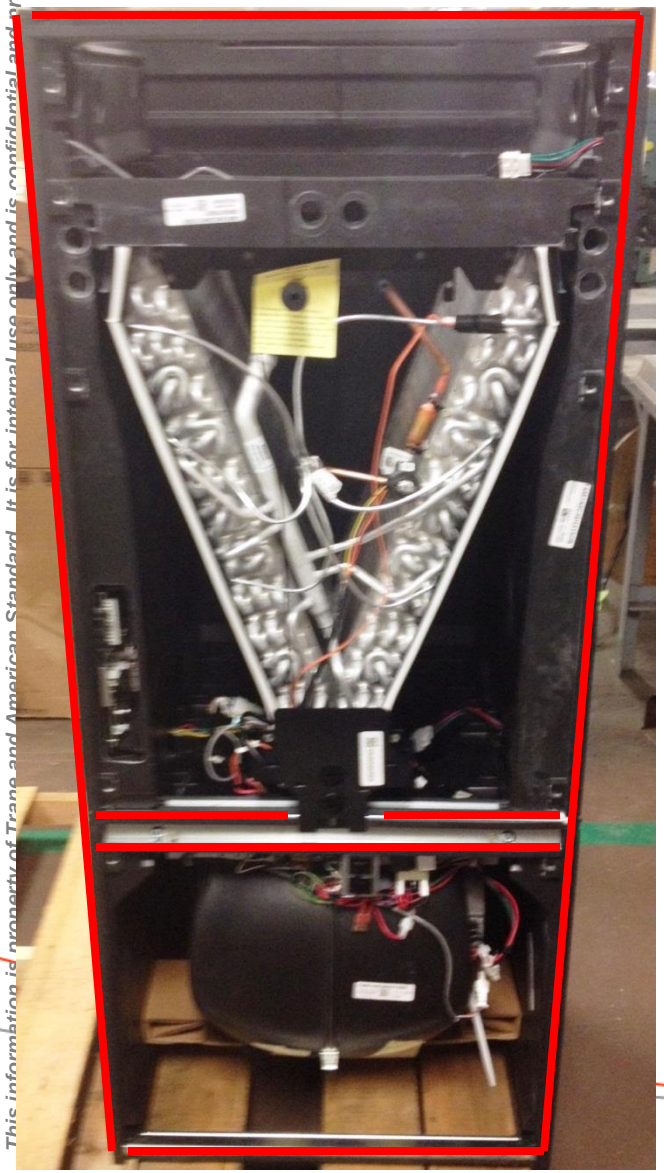
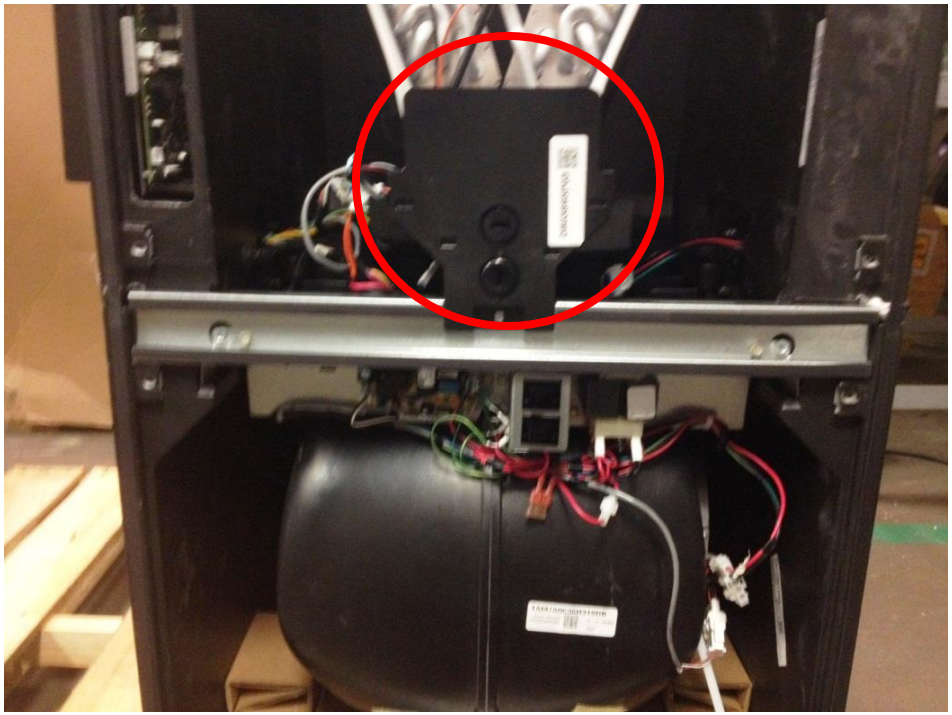
Improved Door Sealing





- Gasket to reduce air leakage
- New cross braces
  - Coil
  - Blower
- Redesigned seal plate

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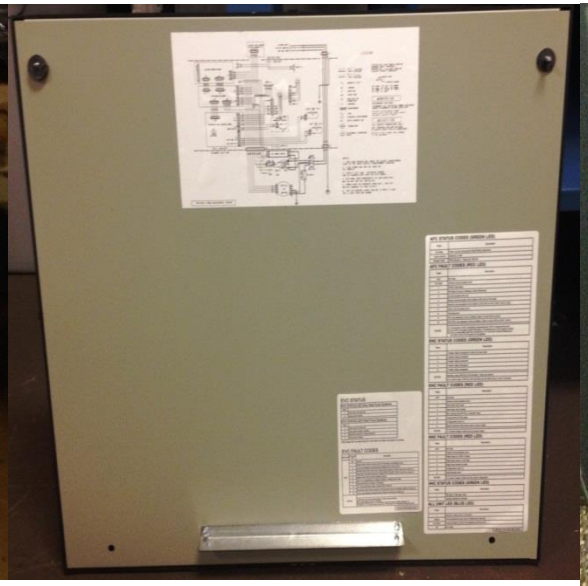
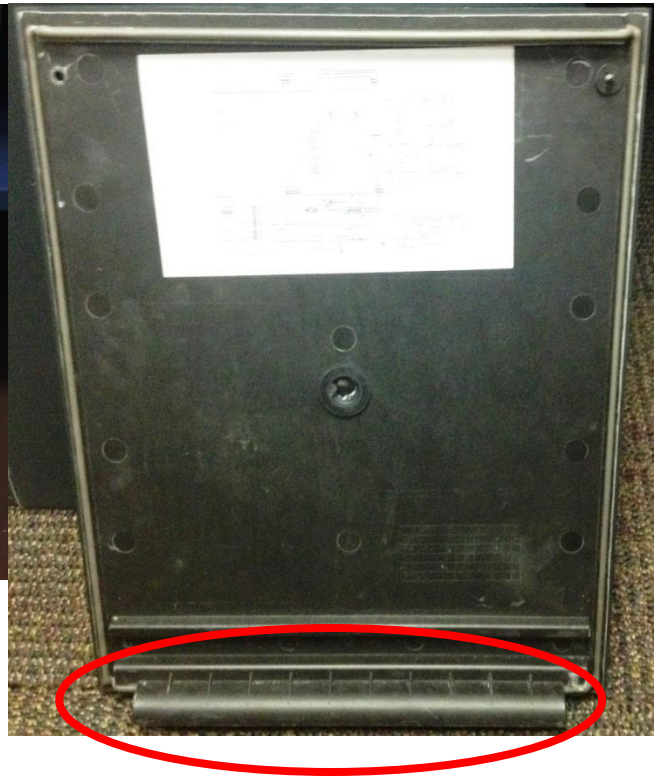
Blower Panel (Steel Door)





- (2) additional thumb screws
- Removed hinge from blower panel

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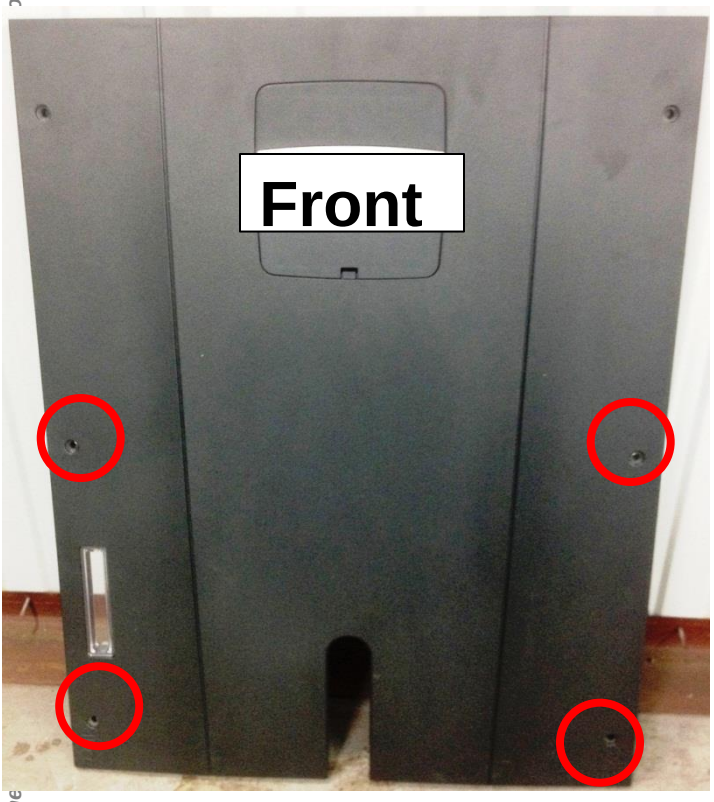
Coil Panel (Steel Door)



- Additional screws added to panel
  - Up to (4) screws on larger panels
- Removed hinge from coil panel

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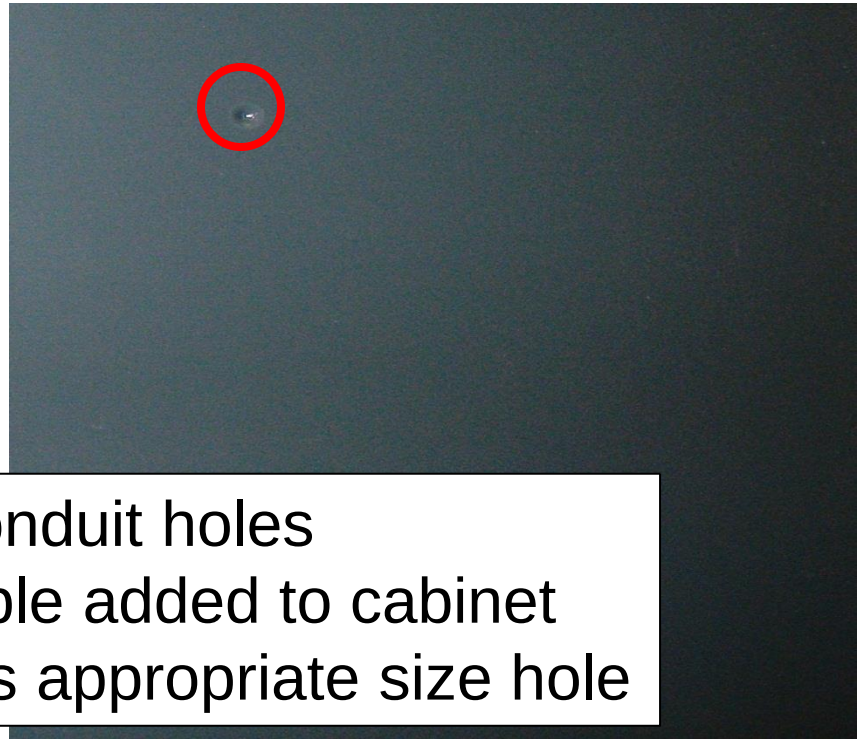
HV Conduit Holes



Removed conduit holes
Locator dimple added to cabinet
Installer drills appropriate size hole

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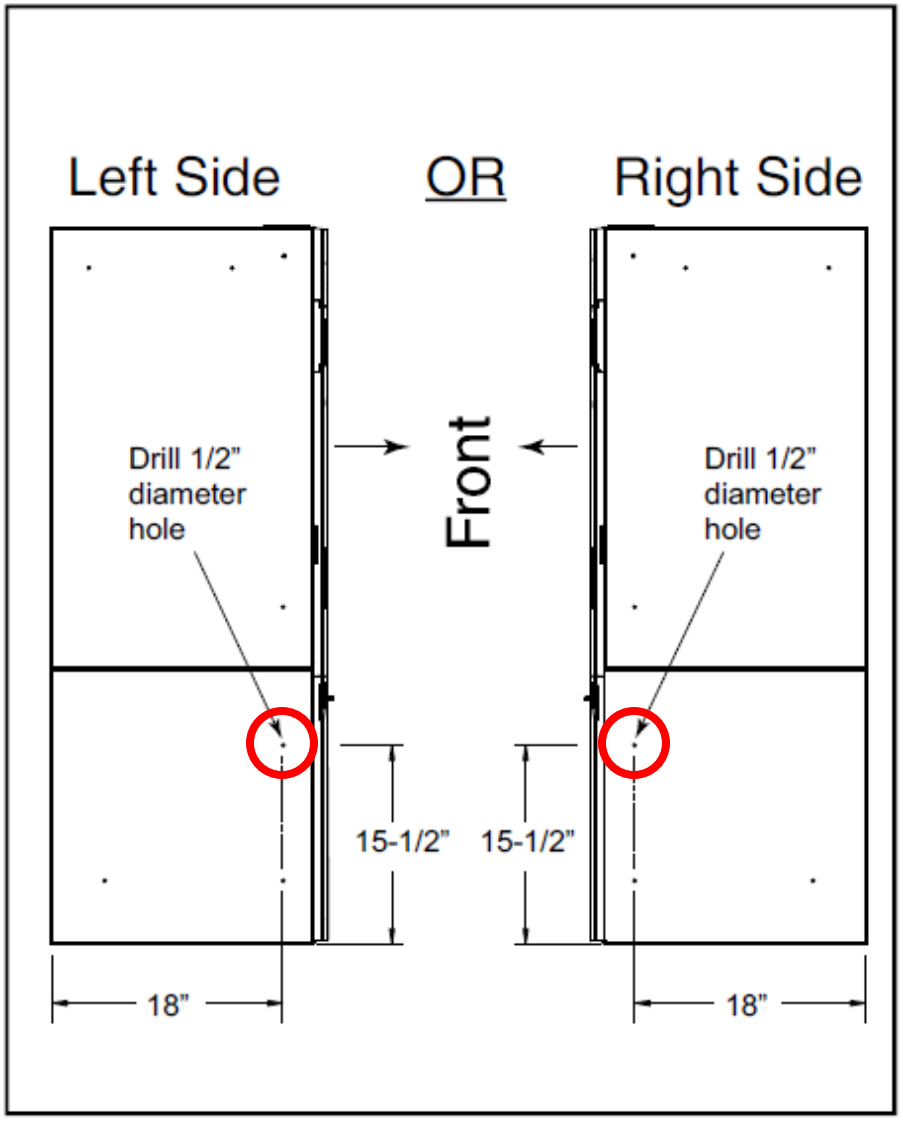
LV Entry Points



- Drill ½" hole for LV entry
- 3/8" bushing supplied in Install packet
- Side return kit
  - If a side return kit is used, the LV entry must be on the opposite side of the air handler

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Replacement Door Kits

- August 2014 availability date
- New door enhancements
- Kit contents
  - Blower panel
  - Coil panel
  - Fixed & EH panel are retained
  - Cross braces
  - Panel anchors
  - Installer's Guide
  - Gasket
- More information to come

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Variable Speed Outdoor Products

eLearning

VS eLearning

Course Name: **Variable Speed Outdoor Product Technical**

Course Announcement: **April 30, 2014**

Course went live: **May 1, 2014**

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VS eLearning

Course Name: **Variable Speed Outdoor Product Technical**

This course has 6 modules. You will need to complete and pass the Knowledge Checks at the end of each module in order to pass this course.

Course Length: 8 hours
NATE ID # 1010-0066

In order to receive NATE credit for NATE recognized eLearning courses, please submit your printed certificate to NATE. For more information, go to NATE's website: www.natex.org or call NATE at 877-420-NATE.

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VS eLearning

Course Completion Certificate

Access your Course Completion Certificate in the Learning Management System. Click My Learning > My Learning History > Variable Speed Outdoor Product Technical > Certificate.

Print this for your records

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XL824 Control Introduction

Trane XL824 Overview

Agenda

- Product Bulletin Update
  - Key XL824 Benefits
  - XL824… Remember
- Introduction
- Nexia Features
- Homeowner Features
- Dealer Features
- Installation Wizard
- Smart Optimization
- User Wizard
- Home Screen Features
- Q & A

XL824

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Trane XL824 Overview

XL824

- **Product Bulletin Update**
  - **Pricing Available Now >**

  Single Lot and Case Lot
- **1st order.. Now!**
- **1st ship April 28th**
  - **Model Number Typo in Product Bulletin and Marketing Collateral > Typo is TCONT824AS42DA**
  - **> Correct Model Number is TCONT824AS52DA**
  - **> XL824 features 5 stages heat and 2 stages cooling**
  - **Advise each of your dealer's to record the XL824's AUID number and associated customer contact information so they may have access to the control's data after homeowner approval when the dealer portal is launched**
- **Read the Installer and User Manual**

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Trane XL824 Delivered Value

- **Key Differentiated Features**
- **Exclusive Built In Nexia™ Home Intelligence Z-Wave Bridge**
- **Exclusive, Easy to Set Up Wi-Fi or Ethernet Connectivity XL824**
  - **Complete Connectivity**
  - **> NexiaTM Home Intelligence Ready**
    - **> Remote Climate Control for Homeowner**
    - **> Nexia Diagnostic Data for Dealer... 2014**
  - **Easy to Install and Configure**

> Installation Wizard... > User Set Up Wizard...

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XL824 Control

- **Introduction**
  - 24-volt version of the 950 control
    - Minus zoning and photo album
  - 4.3” High Definition Color Screen
  - Built-in Wi-Fi radio
  - Ethernet option
  - Onboard Humidity Sensor
  - Micro-USB connector
  - Nexia Bridge Built-In

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•XL824 Control

•• **Nexia Bridge built-in**

- > An external Bridge for connecting Z-Wave devices is not required
- > Nexia Bridge Built-In utilizes a technology called NWI (Network Wide Inclusion) to enroll Z-Wave devices to the control
- > Over 230 different Z-Wave enabled devices are compatible with the 824 control
- > If an 824 control is added to an existing Z-Wave network with a stand-alone bridge, then the 824 control automatically becomes a Z-Wave Repeater

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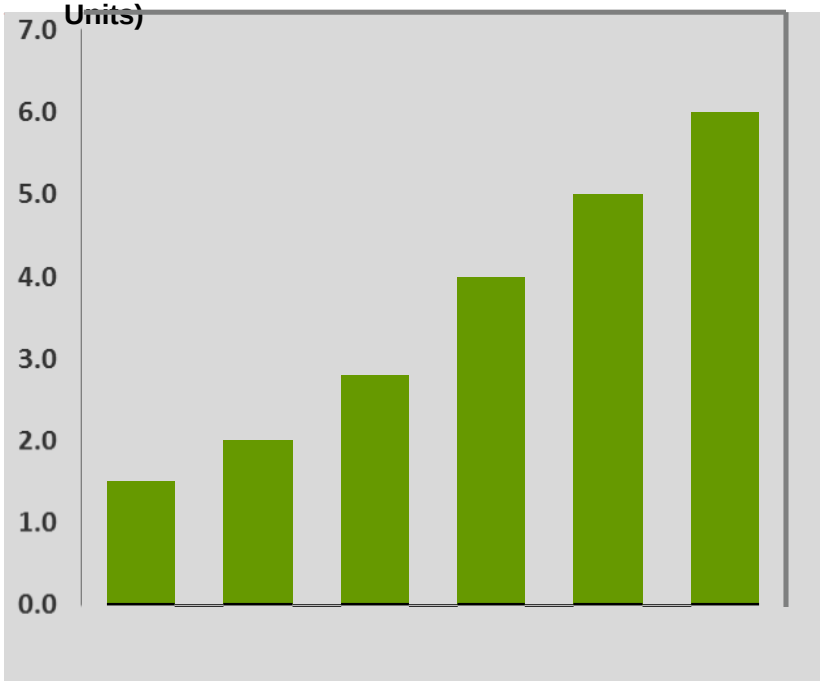
•Remote Access to Thermostats Continues to Grow

- 2013 Shipments of remote access thermostats grew by 46% to ~1.9MM units
- Shipments of connected thermostats projected to quadruple to 5.9MM units by 2017
- Ability to control the comfort of home from any location is arguably the most heavily publicized trend currently impacting the thermostat market
- 87% of consumers surveyed would like ability to remotely monitor home while away

- **IHS IMS Figure: Worldwide Shipment Forecast for Remote Access and Control Thermostats (Millions of Units)**



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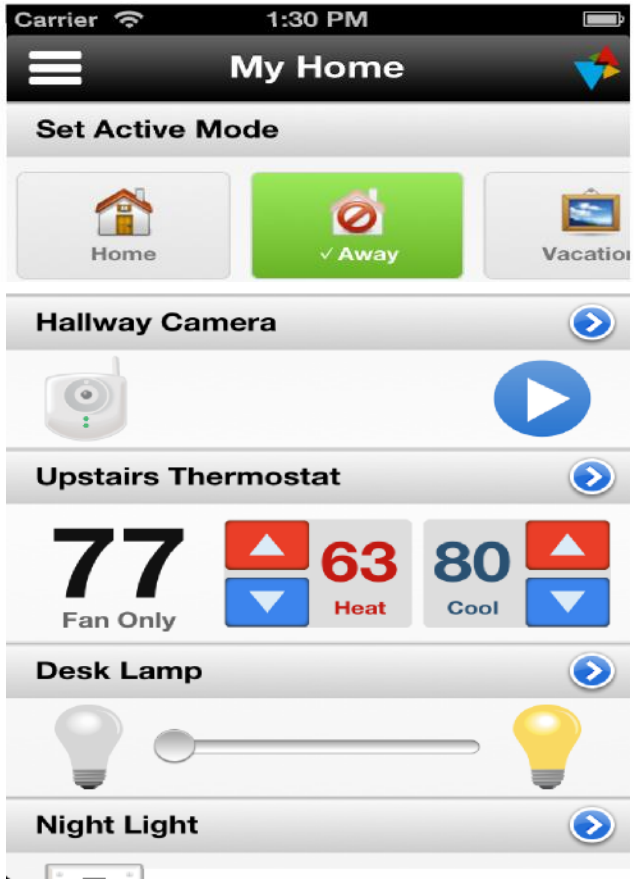
•The "Internet of Things"

Connectivity is changing business models for brands around the world

Smart devices are a requirement, no longer a "nice to have"

Consumers are demanding the ability to connect their devices via a single, seamless hub

The smartphone/tablet revolution is forcing business to think differently



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XL824 Control

- Hardwired common is required
- 5 heat/2 cool
- Heat pump, heat/cool and dual fuel capable
- Supports gas/oil, electric and hydronic heat
  - Forced air hydronic only
- Compatible with Ameristar heat pumps
  - SOV is configurable
- Two AUX contacts for controlling
  - Humidifier
  - Ventilation system
  - Whole-house dehumidifier

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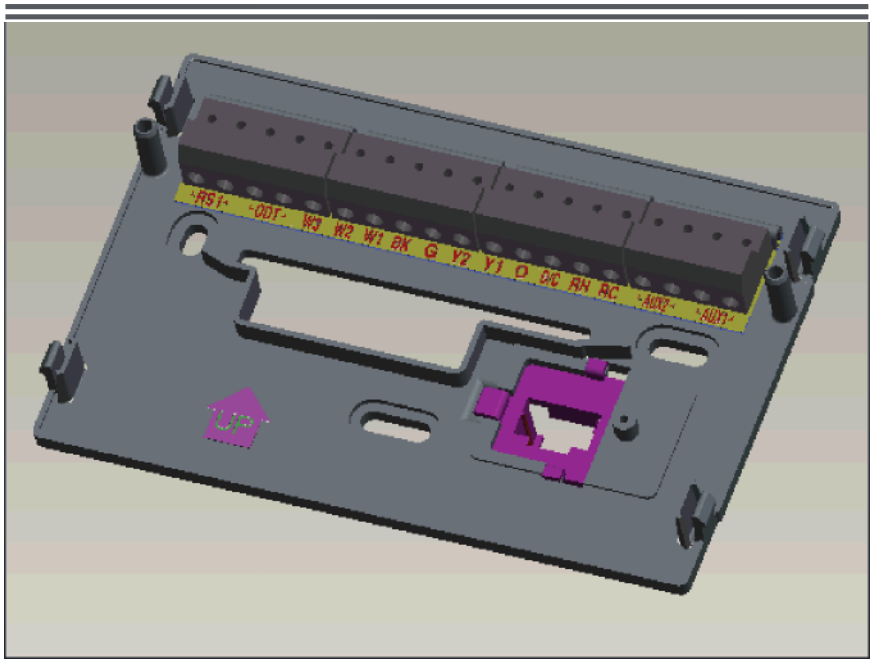
XL824 Control

- **824 sub-base**
  - Temp sensors
    - Remote RS1
    - Outdoor ODT
  - HVAC connections
    - RC & RH
    - B/C
    - W1, W2 & W3
    - BK & G
    - Y1 & Y2
    - O
  - AUX1 & AUX 2 contacts
  - RJ45 Ethernet connection



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XL824 Control

- **Homeowner Features**

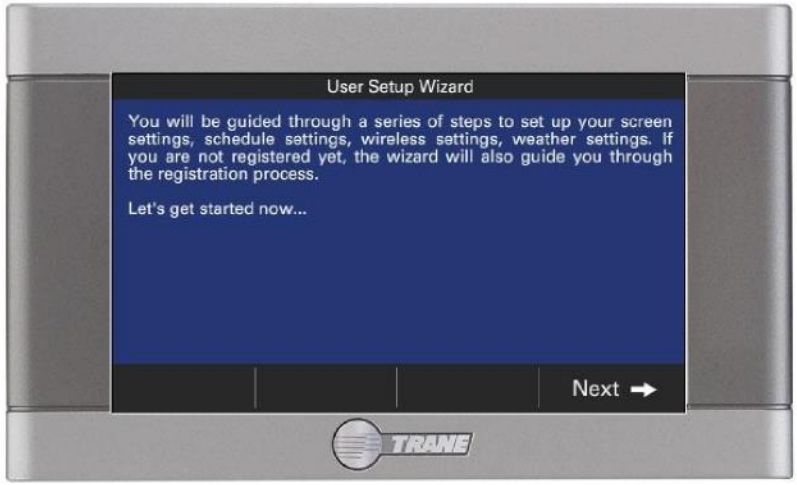
  Nexia compatible

  Local Weather feature

  Software is field upgradable

  7-day Programmable or non-programmable options

  - > Security Settings
    - > Screen Lock
    - > Guest Access
  - > Setup Wizard for user settings


User Setup Wizard
You will be guided through a series of steps to set up your screen settings, schedule settings, wireless settings, weather settings. If you are not registered yet, the wizard will also guide you through the registration process.
Let's get started now...
Next
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NEXIA™
HOME INTELLIGENCE

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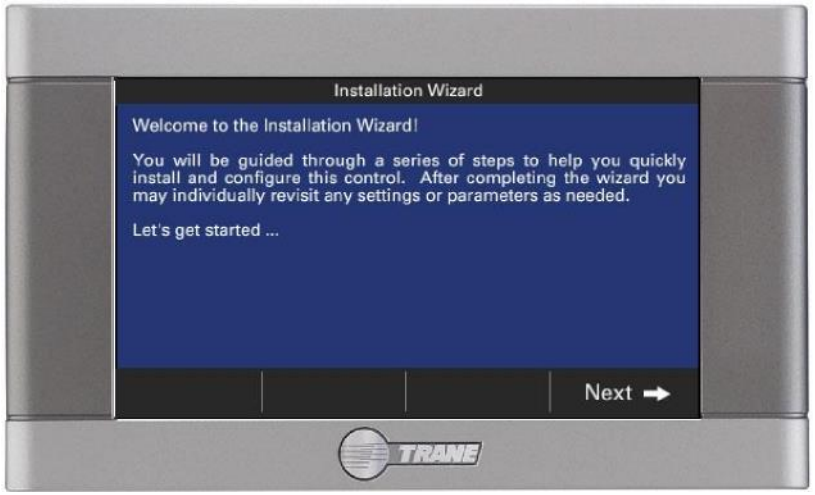
XL824 Control

- **Dealer Features**
  - > Dealer Contact Information Screen
  - > System Information Screen
  - > Test Modes
  - > Embedded Diagnostics
  - > Runtime History
  - > System Report
  - > Setup Wizard for installer settings


Installation Wizard
Welcome to the Installation Wizard!
You will be guided through a series of steps to help you quickly install and configure this control. After completing the wizard you may individually revisit any settings or parameters as needed.
Let's get started ...
Next
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XL824 Control

- **Power-Up**
  - > Initial 90-120 second sequence
  - > Screen calibration can be accessed during the power-up process

Default configuration

-1 stage cooling

-1 stage gas heating

-Non-VS blower

-Media filter

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XL824 Control

- **Installation Wizard**
  - > Once the control powers up for the 1st time, the Installation Wizard launches automatically

Installation Wizard Includes

Date & Time

Installer Setup

Reminders

Dealer Code

- Installation Wizard is located Home>Menu>Service>Technician Access>Proceed>Installation Wizard

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XL824 Control

- **Displayed Indoor Temperature**
  - > On initial startup or after an extended power loss, the indoor temperature sensor of the control may require up to 60 minutes to stabilize
  - > During this stabilization period the control may display an indoor temperature well below the actual indoor temperature
  - > An insert will be included with each 824 control informing the installer that this behavior is expected and to not calibrate the indoor temperature during the first 60 minutes after installation
  - > The insert also provides information about the new Smart Optimization learning routine

The sensors inside this device require up to 60 minutes to stabilize after a cold startup.
During this time you may see lower than expected temperature values or higher than expected humidity values. This is expected and calibration is not required.
Note: This device is equipped with Smart Optimization. Smart Optimization executes a one-time learning sequence which optimizes system performance based on the location of the device. The learn sequence will occur within 24 hours of installation and may take up to 90 minutes to complete. During the learn sequence heating and cooling operations are disabled. The device screen will indicate when the learn sequence occurs and allow a user to cancel the operation at any time.

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XL824 Control

- **Smart Optimization**
  - > To increase the accuracy of the sensed indoor temperature a learning routine has been developed
  - > Smart Optimization only occurs once and will take about 90 minutes to complete
  - > The routine will automatically occur about 18 hours after initial power-up
  - > The process can be cancelled which will delay the routine for another 18 hours or the feature can be disabled
  - > To access the Smart Optimization screen, select Menu>Smart Optimization

Optimizing system operation. DO NOT remove power.
82 Mins
A smart optimization algorithm is executing to optimize system performance based on the location of your thermostat. This operation will only occur one-time and has 82 minutes remaining. During this time heating and cooling operation is not available. To delay this operation for 18 hours press and hold the screen for 5 seconds. To permanently disable this feature navigate to Menu > Smart Optimization and select Disable.
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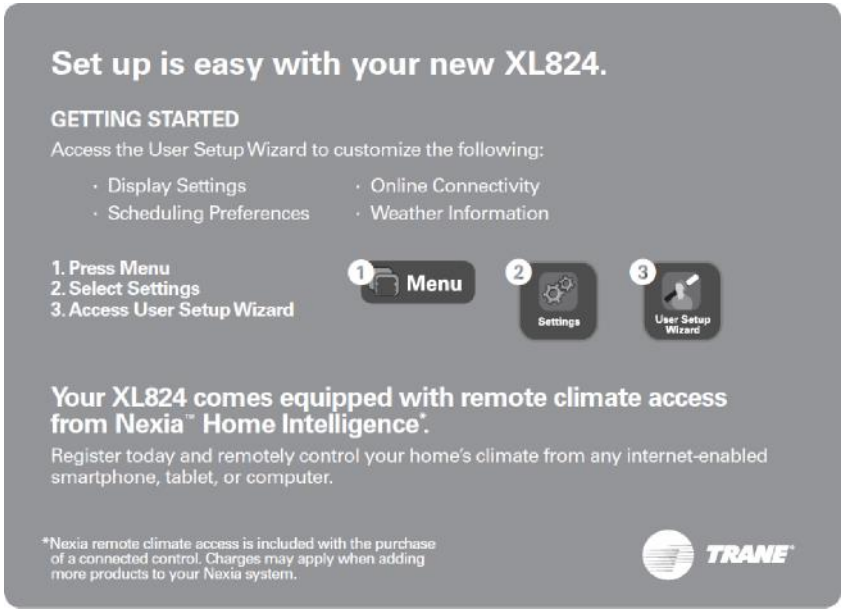
XL824 Control

- **824 Hang Tag**
  - > One of the lessens learned of the 950 program is that most customers don't understand all the features within the control
  - > For this reason we developed a User Wizard to assist the consumer in customizing how the control operates
  - > A laminated hang tag will be shipped with each control prompting the consumer to navigate to the User Setup Wizard to finalize the setup of the control
  - > The hang tag can be affixed to the control for installations where the consumer is not home when the job has been completed


Set up is easy with your new XL824.
GETTING STARTED
Access the User Setup Wizard to customize the following:
· Display Settings
· Scheduling Preferences
· Online Connectivity
· Weather Information
1. Press Menu
2. Select Settings
3. Access User Setup Wizard
1
Menu
2
Settings
3
User Setup Wizard
Your XL824 comes equipped with remote climate access from Nexia™ Home Intelligence*.
Register today and remotely control your home's climate from any internet-enabled smartphone, tablet, or computer.
*Nexia remote climate access is included with the purchase of a connected control. Charges may apply when adding more products to your Nexia system.
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XL824 Control

- **User Setup Wizard Location**
  - > Home>Menu>Settings>User Setup Wizard

- **User Setup Wizard includes:**

  > Display

  > Schedules

  > Guided Schedules or 1-Touch Presets

  > Network

  > Nexia

  > Weather

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- **New Setpoint Panel**
  - > To maximize the limited space on the home screen, the set point panel has been minimized and moved to the far right of the screen
  - > When the indoor temperature panel or minimized set point panel is pressed, the panel slides to the left allowing the user to view/edit set points
  - > After 60 seconds the setpoint panel will minimize

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- **New Setpoint Panel**
  - > The information provided on the panel will be dependent on whether scheduling is enabled or disabled
  - > With scheduling enabled the set point panel allows the user to override scheduled set points
    - > Hold Permanent
    - > Hold Until
    - > Show Schedule
  - > With scheduling disabled the set point panel allows the user to:
    - > Change set points
    - > Select Home/Away/Sleep presets

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- • **The top title bar is used to indicate:** > Date/Time

  • > LAN (local area network)

  status > System Notification

  • > Reminders
  • > Get Connected

  • > Get Connected
  • > If the control is not connected to Nexia a **Get Connected** message will be displayed on the top title bar
  • > The message will be displayed at the following intervals if no connection to
  • Nexia is established:
  • > At initial power-up > After 30 days > After 90 days

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- **The top title bar is also used to indicate:**
  - > System Alerts
    - > Critical alert (red icon)
    - > Major alert (yellow icon)
  - > Pressing the top title bar while a message is displayed will take the user to another screen for additional information

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- ***2014 Connected Controls Platform***

- **XL624**

- **XL824 XL850**

- **XL950**

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- Questions?